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## *Prostate Cancer*

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### **NO PROSTATE-SPECIFIC ANTIGEN (PSA) TEST**

*Definition: Men aged 40 and older that have not had a PSA test within the past two years.*

### **Prevalence of No PSA Test**

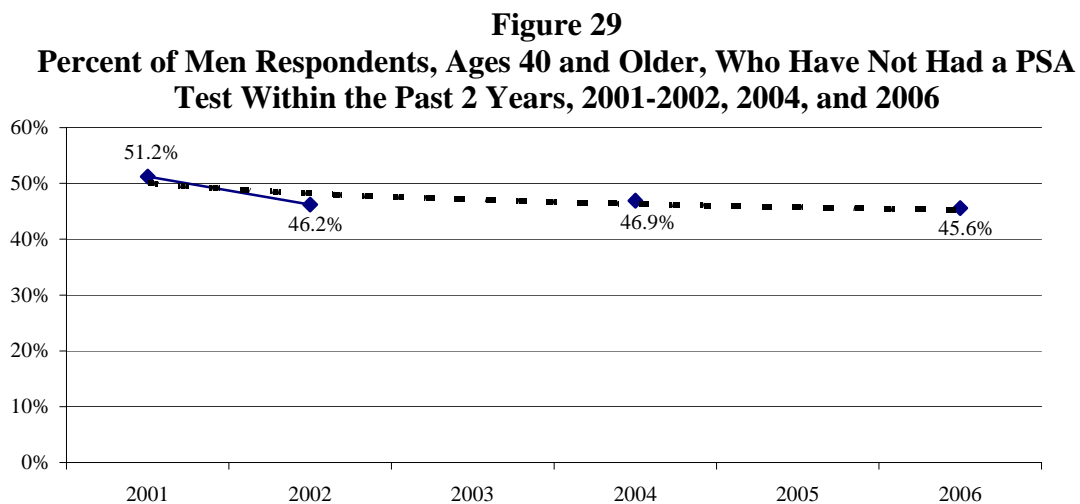
- South Dakota 45.6%
- Nationwide median 46.5%

### **Healthy People 2010 Objective**

*There was no stated Healthy People 2010 Objective for no PSA test within the past two years.*

### **Trend Analysis**

This question was asked in 2001, 2002, and then again in 2004. The percent of men respondents who have not had a PSA test within the past two years decreased from 2004 to 2006.



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2001-2002, 2004, and 2006.

### **Demographics**

- Age** The prevalence of those not getting a PSA test within the past two years generally decreases as age increases. This includes significant decreases as the 45-54, 55-64, and 65-74 age groups are reached. However, it should be noted that a significant increase is shown as the 75 and older age group is reached.
- Race** American Indians demonstrate a significantly higher prevalence of no PSA test in the past two years than whites.
- Region** The American Indian counties region exhibits a very high prevalence of no PSA test in the past two years, while the northeast and central regions show a very low prevalence.

<b>Household Income</b>	Lack of a PSA test seems to generally decrease as household income increases.
<b>Education</b>	Lack of a PSA test does not seem to follow a pattern as education increases.
<b>Employment Status</b>	Those who are employed for wages or self-employed demonstrate a significantly higher prevalence of lack of a PSA test within the past two years than those who are retired.
<b>Marital Status</b>	Those who are divorced, separated, or have never been married exhibit a very high prevalence of a lack of a PSA test, while those who are married or widowed show a very low prevalence.

**Table 37**  
**Men Respondents, Ages 40 and Older, Who Have Not Had a PSA Test Within the Past 2 Years, 2006**

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Total</b>	<b>1,860</b>	<b>45.6</b>	<b>(43.0-48.3)</b>	<b>1,860</b>	<b>45.6</b>	<b>(43.0-48.3)</b>	-	-	-
<b>Age</b>									
18-24	-	-	-	-	-	-	-	-	-
25-34	-	-	-	-	-	-	-	-	-
35-44	208	81.8	(74.9-87.1)	208	81.8	(74.9-87.1)	-	-	-
45-54	550	59.4	(54.5-64.2)	550	59.4	(54.5-64.2)	-	-	-
55-64	472	30.6	(26.1-35.5)	472	30.6	(26.1-35.5)	-	-	-
65-74	348	17.2	(13.0-22.2)	348	17.2	(13.0-22.2)	-	-	-
75+	282	28.9	(23.1-35.4)	282	28.9	(23.1-35.4)	-	-	-
<b>Race</b>									
White	1,703	44.7	(41.9-47.4)	1,703	44.7	(41.9-47.4)	-	-	-
American Indian	107	65.5	(53.8-75.6)	107	65.5	(53.8-75.6)	-	-	-
<b>Region</b>									
Southeast	400	46.7	(41.4-51.9)	400	46.7	(41.4-51.9)	-	-	-
Northeast	442	43.0	(38.0-48.1)	442	43.0	(38.0-48.1)	-	-	-
Central	398	39.4	(34.3-44.8)	398	39.4	(34.3-44.8)	-	-	-
West	435	47.6	(42.6-52.7)	435	47.6	(42.6-52.7)	-	-	-
American Indian Counties	185	59.7	(51.6-67.3)	185	59.7	(51.6-67.3)	-	-	-
<b>Household Income</b>									
Less than \$10,000	*	*	*	*	*	*	-	-	-
\$10,000-\$14,999	*	*	*	*	*	*	-	-	-
\$15,000-\$19,999	112	51.6	(40.5-62.5)	112	51.6	(40.5-62.5)	-	-	-
\$20,000-\$24,999	148	45.3	(36.1-54.8)	148	45.3	(36.1-54.8)	-	-	-
\$25,000-\$34,999	270	44.7	(37.8-51.7)	270	44.7	(37.8-51.7)	-	-	-
\$35,000-\$49,999	357	43.5	(37.6-49.6)	357	43.5	(37.6-49.6)	-	-	-
\$50,000-\$74,999	349	47.2	(41.4-53.2)	349	47.2	(41.4-53.2)	-	-	-
\$75,000+	343	44.9	(38.8-51.2)	343	44.9	(38.8-51.2)	-	-	-
<b>Education</b>									
8th Grade or Less	109	37.3	(26.7-49.3)	109	37.3	(26.7-49.3)	-	-	-
Some High School	*	*	*	*	*	*	-	-	-
High School or G.E.D.	617	46.6	(42.1-51.2)	617	46.6	(42.1-51.2)	-	-	-
Some Post-High School	463	50.7	(45.4-56.1)	463	50.7	(45.4-56.1)	-	-	-
College Graduate	582	40.8	(36.2-45.6)	582	40.8	(36.2-45.6)	-	-	-
<b>Employment Status</b>									
Employed for Wages	746	55.7	(51.5-59.8)	746	55.7	(51.5-59.8)	-	-	-
Self-employed	474	47.4	(42.2-52.7)	474	47.4	(42.2-52.7)	-	-	-
Unemployed	*	*	*	*	*	*	-	-	-
Homemaker	*	*	*	*	*	*	-	-	-
Retired	510	20.8	(16.9-25.2)	510	20.8	(16.9-25.2)	-	-	-
Unable to Work	*	*	*	*	*	*	-	-	-

<b>Table 37 (continued)</b> <b>Men Respondents, Ages 40 and Older, Who Have Not Had a PSA Test Within the Past 2 Years, 2006</b>									
	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Marital Status</b>									
Married/Unmarried Couple	1,260	42.7	(39.5-45.8)	1,260	42.7	(39.5-45.8)	-	-	-
Divorced/Separated	282	57.5	(50.8-64.0)	282	57.5	(50.8-64.0)	-	-	-
Widowed	140	32.4	(24.0-41.9)	140	32.4	(24.0-41.9)	-	-	-
Never Married	172	69.2	(60.5-76.8)	172	69.2	(60.5-76.8)	-	-	-

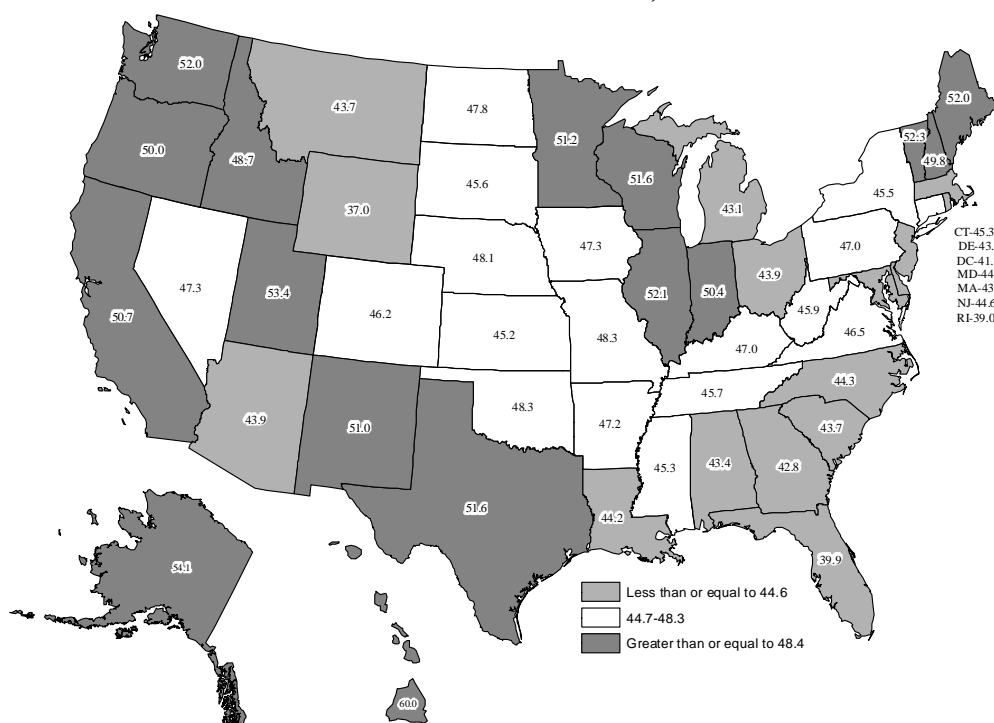
Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## National Statistics

The national median for men respondents who have not had a PSA test within the past two years was 46.5 percent. South Dakota had 45.6 percent of men respondents who have not had a PSA test within the past two years. Wyoming had the lowest percent of men respondents who have not had a PSA test within the past two years with 37.0 percent, while Hawaii had the highest percent of men respondents who have not had a PSA test within the past two years with 60 percent.

**Figure 30**  
**Nationally, Men Respondents, Ages 40 and Older, Who Have Not Had a PSA Test Within the Past 2 Years, 2006**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## Further Analysis

Following are data illustrating the percent of those men who have not had a PSA test within the past two years for various health behaviors and conditions. For example, 79.8 percent of men respondents who have no health insurance stated they have not had a PSA test within the past two years, while 52.6 percent of men respondents who have health insurance stated they have not had a PSA test within the past two years.

<b>Table 38</b> <b>No PSA Test, Ages 40 and Older, Within the Past 2 Years for Selected Health Behaviors and Conditions, 2006</b>			
<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No PSA Test</b>	<b>95% CI</b>
Obese (BMI = 30.0+)	536	45.6	40.7-50.6
Overweight (BMI = 25.0-29.9)	909	46.1	42.3-49.9
Recommended Weight (BMI = 18.5-24.9)	390	43.5	37.8-49.4
No Leisure Time Physical Activity	563	49.2	44.4-54.0
Leisure Time Physical Activity	1,295	44.2	41.0-47.4
Not Heard of "Healthy South Dakota" Program	1,131	46.9	43.5-50.3
Heard of "Healthy South Dakota" Program	662	42.8	38.4-47.4
Current Smoker	331	55.9	49.4-62.2
Former Smoker	722	33.5	29.6-37.7
Never Smoked	799	51.9	47.8-55.9
Smokeless Tobacco Use	161	67.0	58.2-74.7
No Smokeless Tobacco Use	1,660	43.4	40.6-46.2
Diabetes	214	31.6	24.8-39.4
No Diabetes	1,644	47.2	44.4-50.1
Current Asthma	110	39.3	29.4-50.2
Former Asthma	*	*	*
Never Had Asthma	1,706	45.8	43.1-48.7
No Mammogram within Past Two Years (40+)	-	-	-
Mammogram within Past Two Years (40+)	-	-	-
No Clinical Breast Exam within Past Two Years	-	-	-
Clinical Breast Exam within Past Two Years	-	-	-
No Pap Smear within the Past Three Years	-	-	-
Pap Smear within the Past Three Years	-	-	-
No Digital Rectal Exam within the Past Two Years (40+)	804	77.6	74.2-80.6
Digital Rectal Exam within the Past Two Years (40+)	1,040	19.9	17.0-23.1
Prostate Cancer (40+)	100	12.1	6.3-22.0
No Prostate Cancer (40+)	1,755	47.1	44.4-49.9
No Blood Stool Test within the Past Two Years (50+)	1,034	38.5	35.1-42.1
Blood Stool Test within the Past Two Years (50+)	325	10.0	6.9-14.3
Never Had a Sigmoidoscopy or Colonoscopy (50+)	598	48.3	43.5-53.1
Ever Had a Sigmoidoscopy or Colonoscopy (50+)	771	19.0	15.9-22.4
Diagnosed with Cancer in the Past 12 Months	*	*	*
Not Diagnosed with Cancer in the Past 12 Months	1,745	45.6	42.9-48.4
Drank Alcohol in Past 30 Days	1,077	46.2	42.8-49.7
No Alcohol in Past 30 Days	781	44.7	40.6-48.9
Binge Drinker	264	56.2	49.2-62.9
Not a Binge Drinker	1,539	43.6	40.6-46.5
Heavy Drinker	*	*	*
Not a Heavy Drinker	1,730	45.5	42.7-48.3
No Health Insurance (18-64)	100	79.8	68.7-87.6
Health Insurance (18-64)	1,100	52.6	49.1-56.1

**Table 38 (continued)**  
**No PSA Test, Ages 40 and Older, Within the Past 2 Years for Selected Health Behaviors and Conditions, 2006**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No PSA Test</b>	<b>95% CI</b>
Employer Based Health Insurance Coverage (18-64)	709	53.3	49.1-57.6
Private Health Insurance Plan (18-64)	189	53.9	45.7-61.9
Medicare (18-64)	*	*	*
Medicaid or Medical Assistance (18-64)	*	*	*
The Military, CHAMPUS, TriCare, or the VA (18-64)	*	*	*
The Indian Health Service (18-64)	*	*	*
No Flu Shot (65+)	175	33.9	26.4-42.4
Flu Shot (65+)	453	18.5	14.6-23.2
No Pneumonia Shot (65+)	205	35.1	27.9-43.0
Pneumonia Shot (65+)	390	16.9	13.0-21.7
Haven't Been to the Dentist in the Past Year	655	56.8	52.3-61.2
Been to the Dentist in the Past Year	1,200	40.0	36.8-43.4
Not Taking any Precautions Against West Nile Virus	933	48.6	44.7-52.4
Taking Precautions Against West Nile Virus	875	42.0	38.2-45.9
Sometimes/Seldom/Never Wear Seat Belt	471	53.1	47.8-58.4
Always/Almost Always Wear Seat Belt	1,385	43.3	40.2-46.4
Previously Had a Heart Attack	223	30.9	24.2-38.5
Never Had a Heart Attack	1,629	47.4	44.5-50.3
Have Angina or Coronary Heart Disease	172	25.8	18.9-34.1
Do Not have Angina or Coronary Heart Disease	1,669	47.9	45.0-50.7
Previously Had a Stroke	*	*	*
Never Had a Stroke	1,776	46.0	43.3-48.8
Fair or Poor Health Status	316	42.1	35.7-48.8
Excellent, Very Good, or Good Health Status	1,539	46.2	43.3-49.1
Physical Health Not Good for 30 Days of the Past 30	139	34.3	25.3-44.6
Physical Health Not Good for 0-29 Days of the Past 30	1,685	46.3	43.5-49.1
Mental Health Not Good for 20-30 Days of the Past 30	*	*	*
Mental Health Not Good for 0-19 Days of the Past 30	1,757	45.7	42.9-48.4
Usual Activities Unattainable for 10-30 Days of the Past 30	128	40.3	30.9-50.4
Usual Activities Unattainable for 0-9 Days of the Past 30	1,717	46.1	43.3-48.9
Dissatisfied / Very Dissatisfied with Life	*	*	*
Satisfied / Very Satisfied with Life	1,748	45.2	42.5-48.0
Physical, Mental, or Emotional Disability	494	36.9	32.1-42.1
No Physical, Mental, or Emotional Disability	1,356	48.6	45.5-51.7
Disability with Special Equipment Needed	176	36.5	28.4-45.5
No Disability with Special Equipment Needed	1,684	46.5	43.7-49.3
Injured in a Fall (45+)	*	*	*
Not Injured in a Fall (45+)	1,573	38.4	35.6-41.2
Never Been Tested for HIV (18-64)	1,016	55.7	52.1-59.2
Been Tested for HIV (18-64)	187	49.9	41.4-58.4
Military Veteran	779	32.3	28.5-36.4
Not a Military Veteran	1,077	54.5	51.0-58.0

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## **NO DIGITAL RECTAL EXAM**

***Definition: Men aged 40 and older that have not had a digital rectal exam within the past two years.***

### **Prevalence of No Digital Rectal Exam**

- South Dakota 44.7%
- There is no nationwide median for no digital rectal exam within the past two years

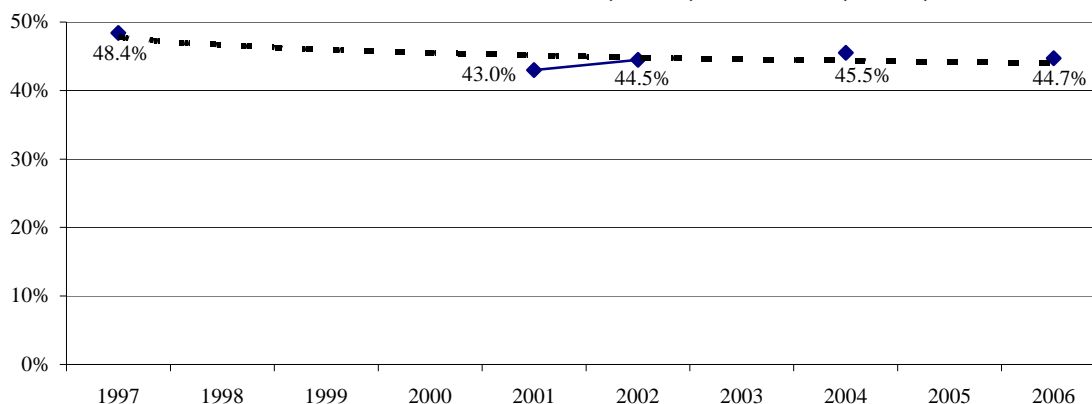
### **Healthy People 2010 Objective**

*There was no stated Healthy People 2010 Objective for no digital rectal exam within the past two years.*

### **Trend Analysis**

Overall, the percent of men respondents who have not had a digital rectal exam within the past two years has been decreasing. However, the last three times the question was asked, the rate has held steady.

**Figure 31**  
**Percent of Men Respondents, Ages 40 and Older, Who Have Not Had a Digital Rectal Exam Within the Past 2 Years, 1997, 2001-2002, 2004, and 2006**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 1997, 2001-2002, 2004, and 2006

### **Demographics**

- |                         |  |
|-------------------------|--|
| <b>Age</b>              | The prevalence of those not getting a digital rectal exam within the past two years generally decreases as age increases. This includes significant decreases as the 45-54 and 55-64 age groups are reached. |
| <b>Race</b>             | American Indians demonstrate a significantly higher prevalence of no digital rectal exam within the past two years than whites.  |
| <b>Region</b>           | The American Indian counties region exhibits a very high prevalence of no digital rectal exam within the past two years, while those in the southeast and northeast regions show a very low prevalence.      |
| <b>Household Income</b> | Lack of a digital rectal exam within the past two years seems to generally decrease as household income increases.   |

<b>Education</b>	Lack of a digital rectal exam generally decreases as education increases.
<b>Employment Status</b>	Those who are employed for wages or self-employed demonstrate a significantly higher prevalence of a lack of a digital rectal exam within the past two years than those who are retired.
<b>Marital Status</b>	Those who are divorced, separated, or have never been married exhibit a significantly higher prevalence of a lack of a digital rectal exam than those who are married or widowed.

**Table 39**  
**Men Respondents, Ages 40 and Older, Who Have Not Had a Digital Rectal Exam Within the Past 2 Years, 2006**

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Total</b>	<b>1,924</b>	<b>44.7</b>	<b>(42.1-47.3)</b>	<b>1,924</b>	<b>44.7</b>	<b>(42.1-47.3)</b>	-	-	-
<b>Age</b>									
18-24	-	-	-	-	-	-	-	-	-
25-34	-	-	-	-	-	-	-	-	-
35-44	215	68.5	(60.8-75.4)	215	68.5	(60.8-75.4)	-	-	-
45-54	566	53.4	(48.5-58.2)	566	53.4	(48.5-58.2)	-	-	-
55-64	483	35.4	(30.7-40.5)	483	35.4	(30.7-40.5)	-	-	-
65-74	347	25.7	(20.8-31.4)	347	25.7	(20.8-31.4)	-	-	-
75+	294	30.6	(24.8-37.0)	294	30.6	(24.8-37.0)	-	-	-
<b>Race</b>									
White	1,755	43.8	(41.1-46.5)	1,755	43.8	(41.1-46.5)	-	-	-
American Indian	115	64.2	(52.5-74.4)	115	64.2	(52.5-74.4)	-	-	-
<b>Region</b>									
Southeast	412	41.5	(36.5-46.7)	412	41.5	(36.5-46.7)	-	-	-
Northeast	461	45.3	(40.4-50.3)	461	45.3	(40.4-50.3)	-	-	-
Central	411	46.6	(41.5-51.8)	411	46.6	(41.5-51.8)	-	-	-
West	447	45.8	(40.8-50.8)	447	45.8	(40.8-50.8)	-	-	-
American Indian Counties	193	58.5	(50.5-66.1)	193	58.5	(50.5-66.1)	-	-	-
<b>Household Income</b>									
Less than \$10,000	*	*	*	*	*	*	-	-	-
\$10,000-\$14,999	*	*	*	*	*	*	-	-	-
\$15,000-\$19,999	117	51.6	(40.8-62.3)	117	51.6	(40.8-62.3)	-	-	-
\$20,000-\$24,999	153	46.2	(37.2-55.4)	153	46.2	(37.2-55.4)	-	-	-
\$25,000-\$34,999	273	42.8	(36.0-49.9)	273	42.8	(36.0-49.9)	-	-	-
\$35,000-\$49,999	368	46.5	(40.6-52.4)	368	46.5	(40.6-52.4)	-	-	-
\$50,000-\$74,999	354	45.9	(40.2-51.8)	354	45.9	(40.2-51.8)	-	-	-
\$75,000+	351	39.0	(33.2-45.1)	351	39.0	(33.2-45.1)	-	-	-
<b>Education</b>									
8th Grade or Less	115	47.8	(36.9-58.8)	115	47.8	(36.9-58.8)	-	-	-
Some High School	*	*	*	*	*	*	-	-	-
High School or G.E.D.	639	48.4	(43.9-52.9)	639	48.4	(43.9-52.9)	-	-	-
Some Post-High School	478	44.2	(39.1-49.5)	478	44.2	(39.1-49.5)	-	-	-
College Graduate	598	39.6	(35.1-44.3)	598	39.6	(35.1-44.3)	-	-	-
<b>Employment Status</b>									
Employed for Wages	768	51.4	(47.3-55.5)	768	51.4	(47.3-55.5)	-	-	-
Self-employed	485	47.7	(42.5-52.9)	485	47.7	(42.5-52.9)	-	-	-
Unemployed	*	*	*	*	*	*	-	-	-
Homemaker	*	*	*	*	*	*	-	-	-
Retired	529	25.9	(21.8-30.4)	529	25.9	(21.8-30.4)	-	-	-
Unable to Work	*	*	*	*	*	*	-	-	-
<b>Marital Status</b>									
Married/Unmarried Couple	1,302	42.3	(39.3-45.4)	1,302	42.3	(39.3-45.4)	-	-	-
Divorced/Separated	291	55.6	(48.9-62.1)	291	55.6	(48.9-62.1)	-	-	-
Widowed	147	35.1	(26.8-44.4)	147	35.1	(26.8-44.4)	-	-	-
Never Married	176	62.9	(54.2-70.9)	176	62.9	(54.2-70.9)	-	-	-

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## Further Analysis

Following are data illustrating the percent of those men who have not had a digital rectal exam within the past two years for various health behaviors and conditions. For example, 69.3 percent of men respondents who use smokeless tobacco stated they have not had a digital rectal exam within the past two years, while 42.5 percent of men respondents who do not use smokeless tobacco stated they have not had a digital rectal exam within the past two years.

<b>Table 40</b> <b>No Digital Rectal Exam, Ages 40 and Older, Within the Past 2 Years for Selected Health Behaviors and Conditions, 2006</b>			
<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No Digital Rectal Exam</b>	<b>95% CI</b>
Obese (BMI = 30.0+)	557	47.6	42.7-52.5
Overweight (BMI = 25.0-29.9)	933	42.4	38.7-46.2
Recommended Weight (BMI = 18.5-24.9)	402	44.5	39.0-50.3
No Leisure Time Physical Activity	584	51.0	46.2-55.7
Leisure Time Physical Activity	1,338	42.3	39.3-45.5
Not Heard of "Healthy South Dakota" Program	1,172	48.2	44.8-51.5
Heard of "Healthy South Dakota" Program	681	39.3	35.1-43.6
Current Smoker	340	52.9	46.4-59.2
Former Smoker	750	37.7	33.8-41.8
Never Smoked	826	47.5	43.5-51.5
Smokeless Tobacco Use	166	69.3	60.8-76.7
No Smokeless Tobacco Use	1,718	42.5	39.7-45.2
Diabetes	227	36.2	29.3-43.7
No Diabetes	1,696	45.7	42.9-48.5
Current Asthma	115	49.6	39.1-60.2
Former Asthma	*	*	*
Never Had Asthma	1,764	44.5	41.8-47.2
No Mammogram within Past Two Years (40+)	-	-	-
Mammogram within Past Two Years (40+)	-	-	-
No Clinical Breast Exam within Past Two Years	-	-	-
Clinical Breast Exam within Past Two Years	-	-	-
No Pap Smear within the Past Three Years	-	-	-
Pap Smear within the Past Three Years	-	-	-
No PSA Test within the Past Two Years (40+)	788	75.6	71.8-79.1
PSA Test within the Past Two Years (40+)	1,056	18.2	15.7-21.0
Prostate Cancer (40+)	101	26.3	17.6-37.2
No Prostate Cancer (40+)	1,818	45.6	42.9-48.3
No Blood Stool Test within the Past Two Years (50+)	1,059	41.2	37.7-44.7
Blood Stool Test within the Past Two Years (50+)	332	14.4	10.6-19.4
Never Had a Sigmoidoscopy or Colonoscopy (50+)	616	53.6	48.8-58.4
Ever Had a Sigmoidoscopy or Colonoscopy (50+)	784	20.5	17.5-23.9
Diagnosed with Cancer in the Past 12 Months	*	*	*
Not Diagnosed with Cancer in the Past 12 Months	1,804	44.9	42.2-47.6
Drank Alcohol in Past 30 Days	1,109	42.8	39.5-46.3
No Alcohol in Past 30 Days	811	47.2	43.2-51.3
Binge Drinker	274	46.5	39.7-53.5
Not a Binge Drinker	1,589	43.9	41.1-46.8
Heavy Drinker	*	*	*
Not a Heavy Drinker	1,789	44.4	41.7-47.1



**Table 40 (continued)**  
**No Digital Rectal Exam, Ages 40 and Older, Within the Past 2 Years for Selected Health Behaviors and Conditions, 2006**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No Digital Rectal Exam</b>	<b>95% CI</b>
No Health Insurance (18-64)	104	80.8	70.2-88.3
Health Insurance (18-64)	1,131	48.4	45.0-51.8
Employer Based Health Insurance Coverage (18-64)	720	48.0	43.8-52.3
Private Health Insurance Plan (18-64)	191	55.0	46.8-63.0
Medicare (18-64)	*	*	*
Medicaid or Medical Assistance (18-64)	*	*	*
The Military, CHAMPUS, TriCare, or the VA (18-64)	*	*	*
The Indian Health Service (18-64)	*	*	*
No Flu Shot (65+)	178	41.1	33.2-49.6
Flu Shot (65+)	461	23.3	19.1-28.1
No Pneumonia Shot (65+)	206	39.4	32.0-47.3
Pneumonia Shot (65+)	400	22.4	18.0-27.5
Haven't Been to the Dentist in the Past Year	688	57.8	53.4-62.0
Been to the Dentist in the Past Year	1,231	38.1	35.0-41.4
Not Taking any Precautions Against West Nile Virus	964	45.9	42.2-49.7
Taking Precautions Against West Nile Virus	905	43.3	39.5-47.1
Sometimes/Seldom/Never Wear Seat Belt	483	53.1	47.8-58.4
Always/Almost Always Wear Seat Belt	1,437	42.1	39.2-45.2
Previously Had a Heart Attack	230	34.5	27.7-41.9
Never Had a Heart Attack	1,687	45.9	43.1-48.7
Have Angina or Coronary Heart Disease	179	30.7	23.5-38.9
Do Not have Angina or Coronary Heart Disease	1,726	46.2	43.5-49.0
Previously Had a Stroke	*	*	*
Never Had a Stroke	1,837	45.2	42.5-47.9
Fair or Poor Health Status	329	45.6	39.3-52.1
Excellent, Very Good, or Good Health Status	1,590	44.5	41.6-47.3
Physical Health Not Good for 30 Days of the Past 30	145	35.5	27.0-45.1
Physical Health Not Good for 0-29 Days of the Past 30	1,743	44.9	42.2-47.7
Mental Health Not Good for 20-30 Days of the Past 30	*	*	*
Mental Health Not Good for 0-19 Days of the Past 30	1,816	44.5	41.9-47.2
Usual Activities Unattainable for 10-30 Days of the Past 30	135	46.4	36.8-56.2
Usual Activities Unattainable for 0-9 Days of the Past 30	1,772	44.7	42.0-47.4
Dissatisfied / Very Dissatisfied with Life	*	*	*
Satisfied / Very Satisfied with Life	1,808	44.4	41.7-47.1
Physical, Mental, or Emotional Disability	516	38.8	34.1-43.8
No Physical, Mental, or Emotional Disability	1,398	46.6	43.5-49.7
Disability with Special Equipment Needed	183	36.0	28.3-44.5
No Disability with Special Equipment Needed	1,741	45.5	42.8-48.3
Injured in a Fall (45+)	*	*	*
Not Injured in a Fall (45+)	1,623	39.6	36.9-42.5
Never Been Tested for HIV (18-64)	1,034	51.7	48.1-55.3
Been Tested for HIV (18-64)	202	47.0	38.9-55.2
Military Veteran	806	32.2	28.5-36.2
Not a Military Veteran	1,114	52.8	49.3-56.2

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## **PROSTATE CANCER**

*Definition: Men aged 40 and older who have been told by a doctor or other health professional that they had prostate cancer.*

### **Prevalence of Prostate Cancer**

- South Dakota 4.4%
- There is no nationwide median for prostate cancer

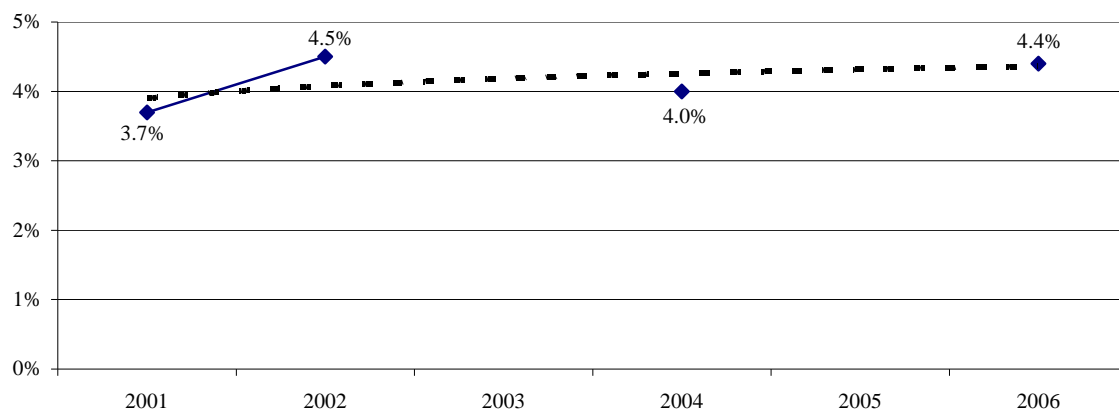
### **Healthy People 2010 Objective**

*There was no stated Healthy People 2010 Objective for prostate cancer.*

### **Trend Analysis**

The percent of men respondents who have been told they had prostate cancer hit its peak in 2002 with 4.5 percent. In 2006, the percent of men respondents who have been told they had prostate cancer came close to the all time high with 4.4 percent.

**Figure 32**  
**Percent of Men Respondents, 40 and Older, Who Have Been Told They Had Prostate Cancer, 2001-2002, 2004, and 2006**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2001-2002, 2004, and 2006

### **Demographics**

<b>Age</b>	The prevalence of diagnosed prostate cancer increases as age increases. This includes significant increases when the 55-64 and 75 and over age groups are attained.
<b>Race</b>	There is no significant racial difference demonstrated by the available data.
<b>Region</b>	There are no significant regional differences exhibited by the available data.
<b>Household Income</b>	The prevalence of diagnosed prostate cancer generally decreases as household income increases.
<b>Education</b>	Diagnosed prostate cancer generally decreases as education increases.

**Employment Status** Those who are retired demonstrate a very high prevalence of diagnosed prostate cancer, while those who are employed for wages show a very low prevalence.

**Marital Status** Those who are widowed exhibit a significantly higher prevalence of diagnosed prostate cancer than all other types of marital status.

<b>Table 41</b> <b>Men Respondents, 40 and Older, Who Have Been Told They Had Prostate Cancer, 2006</b>									
	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Total</b>	<b>1,944</b>	<b>4.4</b>	<b>(3.6-5.5)</b>	<b>1,944</b>	<b>4.4</b>	<b>(3.6-5.5)</b>	-	-	-
<b>Age</b>									
18-24	-	-	-	-	-	-	-	-	-
25-34	-	-	-	-	-	-	-	-	-
35-44	215	0.0	-	215	0.0	-	-	-	-
45-54	572	0.6	(0.2-1.5)	572	0.6	(0.2-1.5)	-	-	-
55-64	486	3.2	(1.8-5.7)	486	3.2	(1.8-5.7)	-	-	-
65-74	351	5.8	(3.7-8.9)	351	5.8	(3.7-8.9)	-	-	-
75+	300	19.5	(15.0-25.0)	300	19.5	(15.0-25.0)	-	-	-
<b>Race</b>									
White	1,775	4.4	(3.5-5.5)	1,775	4.4	(3.5-5.5)	-	-	-
American Indian	113	2.8	(0.9-8.6)	113	2.8	(0.9-8.6)	-	-	-
<b>Region</b>									
Southeast	415	2.8	(1.6-4.8)	415	2.8	(1.6-4.8)	-	-	-
Northeast	464	6.2	(4.3-8.8)	464	6.2	(4.3-8.8)	-	-	-
Central	416	5.6	(3.8-8.1)	416	5.6	(3.8-8.1)	-	-	-
West	456	5.0	(3.2-7.5)	456	5.0	(3.2-7.5)	-	-	-
American Indian Counties	193	3.1	(1.3-7.6)	193	3.1	(1.3-7.6)	-	-	-
<b>Household Income</b>									
Less than \$10,000	*	*	*	*	*	*	-	-	-
\$10,000-\$14,999	*	*	*	*	*	*	-	-	-
\$15,000-\$19,999	116	8.1	(3.8-16.2)	116	8.1	(3.8-16.2)	-	-	-
\$20,000-\$24,999	154	5.3	(2.5-10.7)	154	5.3	(2.5-10.7)	-	-	-
\$25,000-\$34,999	277	6.4	(3.8-10.5)	277	6.4	(3.8-10.5)	-	-	-
\$35,000-\$49,999	371	6.3	(4.1-9.4)	371	6.3	(4.1-9.4)	-	-	-
\$50,000-\$74,999	357	2.9	(1.6-5.1)	357	2.9	(1.6-5.1)	-	-	-
\$75,000+	358	2.7	(1.4-4.8)	358	2.7	(1.4-4.8)	-	-	-
<b>Education</b>									
8th Grade or Less	114	7.8	(3.8-15.3)	114	7.8	(3.8-15.3)	-	-	-
Some High School	*	*	*	*	*	*	-	-	-
High School or G.E.D.	646	5.5	(3.9-7.7)	646	5.5	(3.9-7.7)	-	-	-
Some Post-High School	486	3.0	(1.7-5.1)	486	3.0	(1.7-5.1)	-	-	-
College Graduate	603	3.8	(2.6-5.7)	603	3.8	(2.6-5.7)	-	-	-
<b>Employment Status</b>									
Employed for Wages	774	1.3	(0.7-2.4)	774	1.3	(0.7-2.4)	-	-	-
Self-employed	489	4.0	(2.5-6.5)	489	4.0	(2.5-6.5)	-	-	-
Unemployed	*	*	*	*	*	*	-	-	-
Homemaker	*	*	*	*	*	*	-	-	-
Retired	538	11.4	(8.8-14.7)	538	11.4	(8.8-14.7)	-	-	-
Unable to Work	*	*	*	*	*	*	-	-	-
<b>Marital Status</b>									
Married/Unmarried Couple	1,311	4.7	(3.6-6.0)	1,311	4.7	(3.6-6.0)	-	-	-
Divorced/Separated	294	2.2	(1.1-4.2)	294	2.2	(1.1-4.2)	-	-	-
Widowed	150	11.0	(6.6-17.8)	150	11.0	(6.6-17.8)	-	-	-
Never Married	181	1.3	(0.4-4.5)	181	1.3	(0.4-4.5)	-	-	-

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## Further Analysis

Following are data illustrating the percent of those men who have been diagnosed with prostate cancer for various health behaviors and conditions. For example, 7.1 percent of men respondents who are military veterans stated they have been diagnosed with prostate cancer, while 2.7 percent of men respondents who are not military veterans stated they have been diagnosed with prostate cancer.

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% with Diagnosed Prostate Cancer</b>	<b>95% CI</b>
Obese (BMI = 30.0+)	557	3.9	2.5-6.0
Overweight (BMI = 25.0-29.9)	944	3.8	2.7-5.2
Recommended Weight (BMI = 18.5-24.9)	408	6.8	4.6-9.9
No Leisure Time Physical Activity	587	6.3	4.5-8.8
Leisure Time Physical Activity	1,355	3.7	2.8-4.9
Not Heard of "Healthy South Dakota" Program	1,189	4.2	3.2-5.5
Heard of "Healthy South Dakota" Program	685	5.0	3.5-7.1
Current Smoker	343	1.5	0.6-3.3
Former Smoker	757	6.0	4.4-8.0
Never Smoked	835	4.2	3.0-5.9
Smokeless Tobacco Use	168	1.5	0.3-6.3
No Smokeless Tobacco Use	1,738	4.7	3.8-5.9
Diabetes	227	6.4	3.7-10.7
No Diabetes	1,715	4.2	3.3-5.3
Current Asthma	114	3.8	1.5-9.1
Former Asthma	*	*	*
Never Had Asthma	1,783	4.4	3.5-5.5
No Mammogram within Past Two Years (40+)	-	-	-
Mammogram within Past Two Years (40+)	-	-	-
No Clinical Breast Exam within Past Two Years	-	-	-
Clinical Breast Exam within Past Two Years	-	-	-
No Pap Smear within the Past Three Years	-	-	-
Pap Smear within the Past Three Years	-	-	-
No PSA Test within the Past Two Years (40+)	797	1.2	0.6-2.4
PSA Test within the Past Two Years (40+)	1,058	7.3	5.8-9.2
No Digital Rectal Exam within the Past Two Years (40+)	846	2.6	1.7-4.1
Digital Rectal Exam within the Past Two Years (40+)	1,073	6.0	4.7-7.6
No Blood Stool Test within the Past Two Years (50+)	1,070	5.3	4.0-6.9
Blood Stool Test within the Past Two Years (50+)	334	9.9	6.8-14.1
Never Had a Sigmoidoscopy or Colonoscopy (50+)	625	2.4	1.5-4.1
Ever Had a Sigmoidoscopy or Colonoscopy (50+)	787	9.4	7.4-11.9
Diagnosed with Cancer in the Past 12 Months	*	*	*
Not Diagnosed with Cancer in the Past 12 Months	1,825	3.3	2.6-4.3
Drank Alcohol in Past 30 Days	1,121	3.9	2.9-5.3
No Alcohol in Past 30 Days	819	5.2	3.8-7.1
Binge Drinker	274	0.4	0.1-2.6
Not a Binge Drinker	1,607	5.2	4.1-6.4
Heavy Drinker	*	*	*
Not a Heavy Drinker	1,806	4.6	3.7-5.7
No Health Insurance (18-64)	104	1.1	0.1-7.2
Health Insurance (18-64)	1,142	1.3	0.8-2.3

**Table 42 (continued)**  
**Diagnosed Prostate Cancer, 40 and Older, for Selected Health Behaviors and Conditions, 2006**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% with Diagnosed Prostate Cancer</b>	<b>95% CI</b>
Employer Based Health Insurance Coverage (18-64)	724	1.3	0.6-2.6
Private Health Insurance Plan (18-64)	195	1.6	0.5-5.2
Medicare (18-64)	*	*	*
Medicaid or Medical Assistance (18-64)	*	*	*
The Military, CHAMPUS, TriCare, or the VA (18-64)	100	1.1	0.3-4.4
The Indian Health Service (18-64)	*	*	*
No Flu Shot (65+)	181	9.5	5.8-15.0
Flu Shot (65+)	468	13.5	10.4-17.4
No Pneumonia Shot (65+)	210	9.2	5.8-14.3
Pneumonia Shot (65+)	405	14.7	11.2-19.1
Haven't Been to the Dentist in the Past Year	693	4.4	3.1-6.3
Been to the Dentist in the Past Year	1,245	4.5	3.4-5.9
Not Taking any Precautions Against West Nile Virus	978	5.3	4.0-7.0
Taking Precautions Against West Nile Virus	912	3.6	2.5-5.0
Sometimes/Seldom/Never Wear Seat Belt	488	3.2	1.9-5.2
Always/Almost Always Wear Seat Belt	1,451	4.8	3.8-6.1
Previously Had a Heart Attack	232	10.2	6.6-15.6
Never Had a Heart Attack	1,704	3.7	2.9-4.7
Have Angina or Coronary Heart Disease	179	10.2	6.4-15.9
Do Not have Angina or Coronary Heart Disease	1,745	3.9	3.0-5.0
Previously Had a Stroke	*	*	*
Never Had a Stroke	1,857	4.2	3.3-5.2
Fair or Poor Health Status	332	9.7	6.6-13.9
Excellent, Very Good, or Good Health Status	1,607	3.5	2.7-4.6
Physical Health Not Good for 30 Days of the Past 30	148	7.4	4.2-12.7
Physical Health Not Good for 0-29 Days of the Past 30	1,759	4.0	3.1-5.0
Mental Health Not Good for 20-30 Days of the Past 30	85	2.1	0.5-7.9
Mental Health Not Good for 0-19 Days of the Past 30	1,836	4.4	3.5-5.4
Usual Activities Unattainable for 10-30 Days of the Past 30	138	5.2	2.5-10.5
Usual Activities Unattainable for 0-9 Days of the Past 30	1,788	4.4	3.5-5.5
Dissatisfied / Very Dissatisfied with Life	*	*	*
Satisfied / Very Satisfied with Life	1,829	4.4	3.5-5.5
Physical, Mental, or Emotional Disability	521	7.9	5.6-10.9
No Physical, Mental, or Emotional Disability	1,412	3.2	2.4-4.2
Disability with Special Equipment Needed	189	11.4	7.3-17.4
No Disability with Special Equipment Needed	1,755	3.8	3.0-4.8
Injured in a Fall (45+)	*	*	*
Not Injured in a Fall (45+)	1,641	5.3	4.3-6.6
Never Been Tested for HIV (18-64)	1,045	1.4	0.8-2.4
Been Tested for HIV (18-64)	202	0.8	0.1-5.5
Military Veteran	817	7.1	5.4-9.2
Not a Military Veteran	1,123	2.7	1.9-3.9

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006